

AMENDMENTS TO THE CLAIMS

1. (Original) A protein having a fructosylamine oxidase activity of the following (a) or (b):
(a) a protein comprising the amino acid sequence as set forth in SEQ ID NO: 1 of the Sequence Listing;
(b) a protein comprising an amino acid sequence where one or several amino acid residue(s) is/are deleted, substituted or added in the amino acid sequence of (a) and having a fructosylamine oxidase activity.
2. (Original) A fructosylamine oxidase containing the sequence
GlyPhePhePheGluAlaAspGluAsnAsnGluIleLys.
3. (Original) A fructosylamine oxidase having any of the sequences of the following (e) to (h):
(e) PheHisTyrAspTyrValAlaProLeuAlaLysProAsnSerLysGluArg;
(f)
AspAlaProLeuLeuHisAspLysGluTyrTyrGluGluLeuGlnLysAsnGlyLeuArgAsnTyrArgTyrIleSerThr;
(g) ThrLysGlyAspLysGlyLeuAspProGluAspLys; and
(h) TrpValSerValGluAsnProThrProHisLysLeuGlu.
4. (Original) The fructosylamine oxidase according to any one of claims 1 to 3, which is derived from *Pichia* sp. N1-1 strain or from genus *Pichia*.
5. (Original) A gene coding for a fructosylamine oxidase which is a protein of the following (a) or (b):

(a) a protein comprising the amino acid sequence as set forth in SEQ ID NO: 1 of the Sequence Listing;

(b) a protein comprising an amino acid sequence where one or several amino acid residue(s) is/are deleted, substituted or added in the amino acid sequence of (a) and having a fructosylamine oxidase activity.

6. (Original) A gene coding for a fructosylamine oxidase which is any one of the following

(c) or (d):

(c) DNA comprising the nucleotide sequence as set forth in SEQ ID NO: 2 of the Sequence Listing;

(d) DNA where one or several nucleotide(s) is/are deleted, substituted or added in the above sequence (c) and codes for a protein having a fructosylamine oxidase activity.

7. (Original) A recombinant vector containing the gene as claimed in claim 5 or 6.

8. (Original) A transformant or a transfectant transformed with the recombinant vector as claimed in claim 7.

9. (Original) A process for the production of a fructosylamine oxidase comprising culturing the transformant as claimed in claim 8, and collecting the fructosylamine oxidase from the culture.

10. (Original) A fructosylamine oxidase produced by the process as claimed in claim 9.

11. (Currently amended) A spectroscopic analysis method for a fructosylamine compound using the fructosylamine oxidase as claimed in ~~any one of claims 1 to 4 or 10~~ claim 1.

12. (Currently amended) An electrochemical analysis method for a fructosylamine compound using the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.

13. (Currently amended) An electrochemical analysis method for fructosyl valine using the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
14. (Currently amended) A method for the assay of HbA1c comprising digesting HbA1c in a sample to generate fructosyl valine, and analyzing the fructosyl valine spectroscopically using the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
15. (Currently amended) A method for the assay of fructosamine comprising digesting fructosamine in a sample to generate a fructosylamine compound, and analyzing the fructosylamine compound spectroscopically using the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
16. (Currently amended) A method for the assay of glycated albumin comprising digesting glycated albumin in a sample to generate a fructosylamine compound, and analyzing the fructosylamine compound spectroscopically using the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
17. (Currently amended) An electrochemical analysis method for HbA1c using the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
18. (Currently amended) An electrochemical analysis method for fructosamine using the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
19. (Currently amended) An electrochemical analysis method for glycated albumin using the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
20. (Currently amended) A kit for assay of fructosyl valine comprising the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.

21. (Currently amended) A kit for assay of HbA1c containing the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
22. (Currently amended) A kit for assay of fructosamine comprising the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
23. (Currently amended) A kit for assay of glycated albumin comprising the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1.
24. (Currently amended) An enzyme electrode having the fructosylamine oxidase as claimed in ~~one of claims 1 to 4 or 10~~ claim 1 immobilized thereon.
25. (Original) An enzyme sensor comprising the enzyme electrode as claimed in claim 24 as a working electrode.